

Western Electric Co., Incorporated,
Engineering Dept.,
New York.

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METHOD OF OPERATION
LINE CIRCUIT

Test & Plugging Up - In Connection With Jack Boxes At M.D.F. - Special Outgoing
Trunk Test Board - Machine Switching System.
SOUTHWESTERN BELL TELEPHONE COMPANY.

GENERAL DESCRIPTION

1. This circuit is used to connect subscribers' lines that are out of order from the M.D.F. directly to the sender monitoring position of a special outgoing trunk test board.

DETAILED DESCRIPTION

OPERATION

2. When the clips are connected to an out-of-order line at the main distributing frame, and the associated plugs inserted in the jacks at the jack box the green lamp lights. The central office end of the line is disconnected as the circuit is established directly from the incoming line to the sender monitoring position of the special outgoing trunk test board. When ringing current is applied to the line the L relay operates through the 475 ohm winding. The (L) relay operated locks to ground through its 525 ohm winding, causing the white lamp to light. When the plug of the talking cord is inserted in the jack at the outgoing test board position the (L) relay is released, extinguishing the white lamp.

3. Assuming that the plug is inserted in the jack at the jack box is connected to a line that is grounded on the ring side, or to a short-circuited line, the (L-1) relay will operate, lighting the red lamp. The operation of the #240-A key causes the red lamp to be extinguished. When the trouble is removed from the line the red lamp relights. The #248-A key restored to normal causes the red lamp to be extinguished. When the plugs are removed from the jacks at the jack box the (L-1) relay releases and the green lamp is extinguished.

CIRCUIT REQUIREMENTS

	<u>OPERATE</u>	<u>NON OPERATE</u>	<u>RELEASE</u>
B35 (L) relay outer wdg. (525 ohms)	Test .0045 amp. Re-adj. .0042 amp.		Test .0013 amp. Re-adj. .0014 amp.
Inner wdg. (475 ohms)	Test .0065 amp.		
B97 (L-1)	After a soak of approximately .015 amp. Test. 0075 amp. Re-adj. .005 amp.		After a soak of ap- proximately .015 Test .0026 amp. Re-adj. .0028 amp.

ENG.--WHL-JO.
1-5-22.

CHK'D.--FAB.

APPROVED - C. L. SLUYTER, G.M.L.